

List of All Chemicals

P Cleonia lusitanica (Lamiaceae)

Common name(s)

Spanish Heal-All

How used

Medicinal

*Unless otherwise noted all references are to Duke, James A. 1992. Handbook of phytochemical constituents of GRAS herbs and other economic plants. Boca Raton, FL. CRC Press.

| Chemical | Plant Part | Low PPM | High PPM | StdDev | *Reference |
|-------------|------------|---------|----------|--------|---|
| 1,8-CINEOLE | Leaf | 2.0 | 10.0 | -0.53 | Perez-Alonso, M., Velasco-Negueruela, A., and Lopez-Saez, A. 1991. The Essential Oil of Cleonia lusitanica. J. Ess. Oil Res., 3: 441-442. |

Activities (67)

| | |
|--|--|
| (-)-Chronotropic 87 nl/ml | Hansel, R., Keller, K., Rimpler, H., and Schneider, G. eds. 1992. Hager's Handbuch der Pharmazeutischen Praxis, Drogen (A-D), 1209 pp., 1993 (E-O), 970 pp., 1994 (P-Z), 1196 pp. Springer-Verlag, Berlin. |
| (-)-Inotropic 87 nl/ml | Hansel, R., Keller, K., Rimpler, H., and Schneider, G. eds. 1992. Hager's Handbuch der Pharmazeutischen Praxis, Drogen (A-D), 1209 pp., 1993 (E-O), 970 pp., 1994 (P-Z), 1196 pp. Springer-Verlag, Berlin. |
| Acaricide LC100=6 uM | |
| Allelopathic | |
| Allergenic | |
| Anesthetic | |
| Anthemintic | Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp. |
| Antiacetylcholinesterase IC50=41 ug/ml | |
| Antiallergic | J. Food Hyg. Soc. Jap. 33(6): 569. |
| Antibacterial 50 ppm | |
| Antibronchitic | |
| Anticariogenic | |
| Anticatarrh | Martindale's 29th |
| Anticholinesterase IC50=50-70 | |
| Antifatigue | |
| Antihalitosis | American Health, 12(4): 17, 1993. |
| Antiinflammatory | |
| Antilaryngitic | |
| Antinociceptive | |
| Antipharyngitic | |
| Antiplateau | |
| Antirheumatic | |
| Antirhinitic | |
| Antiseptic | Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp. |
| Antisinusitic | |
| Antispasmodic | |
| Antistaphylococcic 50 ppm | |
| Antitussive | |
| Antiulcer | |
| CNS-Stimulant | |
| Candidicide | |
| Carcinogenic | Zebovitz, T. C. Ed. 1989. Part VII. Flavor and Fragrance Substances, in Keith L. H. and Walters, D.B., eds. Compendium of Safety Data Sheets for Research and Industrial Chemicals. VCH Publishers, New York. 3560-4253. |
| Choleretic | |
| Convulsant | |
| Counterirritant | Martindale's 29th |
| Cytochrome-P450-Inducer | |
| Decongestant | |
| Degranulant 0.3 ul/ml | |
| Dentifrice | Martindale's 29th |
| Edemagenic inj | |
| Expectorant | Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp. |

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|----------------------------------|--|
| Fungicide | |
| Gastroprotective | |
| Gram(+)-icide | |
| Gram(-)-icide | |
| Hepatotoxic | |
| Herbicide IC50=78 uM | Keeler, R.F. and Tu, A.T. eds. 1991. Toxicology of Plant and Fungal Compounds. (Handbook of Natural Toxins Vol. 6) Marcel Dekker, Inc. NY. 665 pp. |
| Hypotensive | |
| Inflammatory inj | |
| Insectifuge | |
| Irritant | Rinzler, C. A. 1990. The Complete Book of Herbs, Spices and Condiments. Facts on File, New York. 199 pp. |
| Myorelaxant | Newall, C. A., Anderson, L. A. and Phillipson, J. D. 1996. Herbal Medicine - A Guide for Health-care Professionals. The Pharmaceutical Press, London. 296pp. |
| Nematicide | Nigg, H.N. and Seigler, D.S., eds. 1992. Phytochemical Resources for Medicine and Agriculture. Plenum Press, New York. 445 pp. |
| Neurotoxic | |
| P450-Inducer | |
| Pediculicide 2.3 x pyrethrin | |
| Perfume | Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry |
| Pesticide | |
| Rubefacient | Martindale's 29th |
| Secretagogue | |
| Sedative | |
| Spasmogenic | |
| Surfactant | |
| Testosterone-Hydroxylase-Inducer | |
| Transdermal | |
| Trichomonicide LD100=1,000 ug/ml | |

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|--------------------|------|-----|-----|--|---|
| ALLOOCIMENE-ISOMER | Leaf | 1.0 | 6.0 | | Perez-Alonso, M., Velasco-Negueruela, A., and Lopez-Saez, A. 1991. The Essential Oil of <i>Cleonia lusitanica</i> . J. Ess. Oil Res., 3: 441-442. |
|--------------------|------|-----|-----|--|---|

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|---------------|------|-----|-----|-------|---|
| ALPHA-CADINOL | Leaf | 1.0 | 1.0 | -1.13 | Perez-Alonso, M., Velasco-Negueruela, A., and Lopez-Saez, A. 1991. The Essential Oil of <i>Cleonia lusitanica</i> . J. Ess. Oil Res., 3: 441-442. |
|---------------|------|-----|-----|-------|---|

Activities (3)

- Acaricide
- Antimite
- Pesticide

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|---------------|------|----|-----|-------|---|
| ALPHA-COPAENE | Leaf | -- | 1.0 | -0.35 | Perez-Alonso, M., Velasco-Negueruela, A., and Lopez-Saez, A. 1991. The Essential Oil of <i>Cleonia lusitanica</i> . J. Ess. Oil Res., 3: 441-442. |
|---------------|------|----|-----|-------|---|

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|----------------|------|----|-----|-------|---|
| ALPHA-HUMULENE | Leaf | -- | 1.0 | -0.47 | Perez-Alonso, M., Velasco-Negueruela, A., and Lopez-Saez, A. 1991. The Essential Oil of <i>Cleonia lusitanica</i> . J. Ess. Oil Res., 3: 441-442. |
|----------------|------|----|-----|-------|---|

Activities (2)

- Antitumor Zheng, G.-O., Kenney, P.M., and Lam, L.K.T. Sesquiterpenes From Clove (*Eugenia caryophyllata*) As Potential Anticarcinogenic Agents. Journal of Natural Products 55(7): 999-1003, 1992.
- Perfumery Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.

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|--------------------|------|-----|-----|-------|---|
| ALPHA-PHELLANDRENE | Leaf | 1.0 | 2.0 | -0.31 | Perez-Alonso, M., Velasco-Negueruela, A., and Lopez-Saez, A. 1991. The Essential Oil of <i>Cleonia lusitanica</i> . J. Ess. Oil Res., 3: 441-442. |
|--------------------|------|-----|-----|-------|---|

Activities (11)

- Antibacterial Wright, C.W.(Ed)2002.Medicinal&Aromatic Plants-Industrial Profiles.Artemisia.344pp.Maffei,M.(Ed)2002.Vetiveria.The Genus Vetiveria.Taylor&Francis.NY,NY.191pp.Southwell,I.,Lowe,R.(Eds)1999.Tea Tree.The Genus Melaleuca.Harwood Acad.Pub.Amsterdam,Netherlands.
- Antistaphylococcic Wright, C.W.(Ed)2002.Medicinal&Aromatic Plants-Industrial Profiles.Artemisia.344pp.Maffei,M.(Ed)2002.Vetiveria.The Genus Vetiveria.Taylor&Francis.NY,NY.191pp.Southwell,I.,Lowe,R.(Eds)1999.Tea Tree.The Genus Melaleuca.Harwood Acad.Pub.Amsterdam,Netherlands.
- Dermal Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
- Emetic
- FLavor FEMA 10-130 Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry
- Fungicide Hansel, R., Keller, K., Rimpler, H., and Schneider, G. eds. 1992. Hager's Handbuch der Pharmazeutischen Praxis, Drogen (A-D), 1209 pp., 1993 (E-O), 970 pp., 1994 (P-Z), 1196 pp. Springer-Verlag, Berlin.
- Insectiphile Pakistan Encyclopedia Planta Medica. 1986.
- Irritant Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
- Laxative
- Perfumery Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
- Pesticide

| | | | | | |
|--------------|------|------|-------|-------|---|
| ALPHA-PINENE | Leaf | 90.0 | 170.0 | -0.21 | Perez-Alonso, M., Velasco-Negueruela, A., and Lopez-Saez, A. 1991. The Essential Oil of |
|--------------|------|------|-------|-------|---|

Activities (28)

| | |
|----------------------------------|--|
| Allelochemic | |
| Allergenic | |
| Antiacne | |
| Antibacterial | |
| Antifeedant | |
| Antiflu | Economic & Medicinal Plant Research, 5: 195. |
| Antiinflammatory 500 mg/kg | |
| Antipneumonic | |
| Antiseptic | |
| Antispasmodic | |
| Antistaphylococcic | |
| Antiviral | Economic & Medicinal Plant Research, 5: 195. |
| Cancer-Preventive | Stitt, P. A. Why George Should Eat Broccoli. Dougherty Co, Milwaukee, WI, 1990, 399 pp. |
| Coleoptophile | |
| Expectorant | Michael Castleman 1991. The Healing Herbs. Rodale Press, Emmaus, PA 436 pp. |
| FLavor FEMA 15-150 | Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry |
| Herbicide IC50=30 uM | Keeler, R.F. and Tu, A.T. eds. 1991. Toxicology of Plant and Fungal Compounds. (Handbook of Natural Toxins Vol. 6) Marcel Dekker, Inc. NY. 665 pp. |
| Insecticide 0.82 uM/fly | |
| Insectifuge 50 ppm | |
| Insectiphile | J. Stored. Prod. Res., 22:141, 1986. |
| Irritant | Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp. |
| P450-2B1-Inhibitor IC50=0.087 uM | |
| Perfumery | Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry |
| Pesticide | |
| Sedative | Lawrence Review of Natural Products, Jun-90. |
| Spasmogenic | |
| Tranquilizer | Lawrence Review of Natural Products, Jun-90. |
| Transdermal | |

ALPHA-TERPINEOL Leaf 1.0 5.0 -0.58 Perez-Alonso, M., Velasco-Negueruela, A., and Lopez-Saez, A. 1991. The Essential Oil of *Cleonia lusitanica*. J. Ess. Oil Res., 3: 441-442.

Activities (23)

| | |
|---|---|
| ACE-Inhibitor 100 ug/ml (weak activity) | |
| Aldose-Reductase-Inhibitor 100 ug/ml | Okamura, K., Iwakami, S., Matsunaga, T. 1992. Biological Activity of Monoterpenes from Trees. Toyama-Ken Yakuji Kenkyusho Nenpo, (20): 95-101. |
| Allelopathic | Wright, C.W. (Ed) 2002. Medicinal & Aromatic Plants - Industrial Profiles. Artemisia. 344pp. Maffei, M. (Ed) 2002. Vetiveria. The Genus Vetiveria. Taylor & Francis. NY, NY. 191pp. Southwell, I., Lowe, R. (Eds) 1999. Tea Tree. The Genus Melaleuca. Harwood Acad. Pub. Amsterdam, Netherlands. |
| Antiacne | |
| Antibacterial MIC=800-1,600 ug/ml | Muroi, H. and Kubo, I. 1993. Combination Effects of Antibacterial Compounds in Green Tea Flavor against <i>Streptococcus mutans</i> . J. Agric. Food Chem. 41: 1102-1105. |
| Anticancer | Joseph, J., Nadeau, D. and Underwood, A. 2001. The Color Code. Hyperion, NY. |
| Anticariogenic MIC=800-1,600 ug/ml | Muroi, H. and Kubo, I. 1993. Combination Effects of Antibacterial Compounds in Green Tea Flavor against <i>Streptococcus mutans</i> . J. Agric. Food Chem. 41: 1102-1105. |
| Antiinflammatory | |
| Antiproliferant | |
| Antiseptic | Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp. |
| Cicatrizant ED50=240 ug/g mus | |
| FLavor FEMA 5-40 | Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry |
| Insecticide 1.29 uM/fly | |
| Interleukin-6-Inhibitor | |
| Mosquitofuge > Deet | |
| Motor-Depressant | Buchbauer et al, e.g. Buchbauer et al, 1993. Therapeutic properties of essential oils and fragrances. Chap. 12 in Teranishi, R., Buttery, R.G and Sugisawa, H. Eds. Bioactive Volatile Compounds from Plants. ACS Symposium Series 525. Amer. Chem. Soc., Washington DC |
| Nematicide MLC=1 mg/ml | Shoyakugaku Zasshi, 44: 183. |
| Perfumery | Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp. |
| Pesticide | |
| Sedative | Buchbauer et al, e.g. Buchbauer et al, 1993. Therapeutic properties of essential oils and fragrances. Chap. 12 in Teranishi, R., Buttery, R.G and Sugisawa, H. Eds. Bioactive Volatile Compounds from Plants. ACS Symposium Series 525. Amer. Chem. Soc., Washington DC |
| Termiticide IC100=5 mg/g | |

Vulnerary
ED50=240 ug/g mus

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|---------------|------|-----|-----|-------|---|
| ALPHA-THUJONE | Leaf | 1.0 | 1.0 | -0.59 | Perez-Alonso, M., Velasco-Negueruela, A., and Lopez-Saez, A. 1991. The Essential Oil of <i>Cleonia lusitanica</i> . J. Ess. Oil Res., 3: 441-442. |
|---------------|------|-----|-----|-------|---|

Activities (6)

| | |
|---------------|---|
| Abortifacient | Newall, C. A., Anderson, L. A. and Phillipson, J. D. 1996. Herbal Medicine - A Guide for Health-care Professionals. The Pharmaceutical Press, London. 296pp. |
| Antibacterial | J. Ess. Oil Res. 7: 271. |
| Emmenagogue | Newall, C. A., Anderson, L. A. and Phillipson, J. D. 1996. Herbal Medicine - A Guide for Health-care Professionals. The Pharmaceutical Press, London. 296pp. |
| Insecticide | |
| Larvicide | Misra, L.N. and Singh, S.P. Alpha-Thujone, The Major Component Of The Essential Oil From <i>Artemisia vulgaris</i> Growing Wild In Nilgiri Hills. Journal of Natural Products, 49: 941, 1986. |
| Pesticide | |

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|--------------------|------|-----|-----|-------|---|
| BETA-CARYOPHYLLENE | Leaf | 2.0 | 5.0 | -0.33 | Perez-Alonso, M., Velasco-Negueruela, A., and Lopez-Saez, A. 1991. The Essential Oil of <i>Cleonia lusitanica</i> . J. Ess. Oil Res., 3: 441-442. |
|--------------------|------|-----|-----|-------|---|

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|-------------|------|------|------|-------|---|
| BETA-PINENE | Leaf | 15.0 | 35.0 | -0.38 | Perez-Alonso, M., Velasco-Negueruela, A., and Lopez-Saez, A. 1991. The Essential Oil of <i>Cleonia lusitanica</i> . J. Ess. Oil Res., 3: 441-442. |
|-------------|------|------|------|-------|---|

Activities (13)

| | |
|--------------------|--|
| Allergenic | |
| Antiinflammatory | |
| Antiseptic | Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp. |
| Antispasmodic | |
| Candidicide | |
| Flavor FEMA 15-600 | Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry |
| Herbicide | Keeler, R.F. and Tu, A.T. eds. 1991. Toxicology of Plant and Fungal Compounds. (Handbook of Natural Toxins Vol. 6) Marcel Dekker, Inc. NY. 665 pp. |
| Insectifuge | Jacobson, M., Glossary of Plant-Derived Insect Deterrents, CRC Press, Inc., Boca Raton, FL, 213 p, 1990. |
| Irritant | Zebovitz, T. C. Ed. 1989. Part VII. Flavor and Fragrance Substances, in Keith L. H. and Walters, D.B., eds. Compendium of Safety Data Sheets for Research and Industrial Chemicals. VCH Publishers, New York. 3560-4253. |
| Perfumery | Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry |
| Pesticide | |
| Spasmodogenic | Newall, C. A., Anderson, L. A. and Phillipson, J. D. 1996. Herbal Medicine - A Guide for Health-care Professionals. The Pharmaceutical Press, London. 296pp. |
| Transdermal | |

| | | | | | |
|---------|------|-----|-----|-------|---|
| BORNEOL | Leaf | 1.0 | 5.0 | -0.47 | Perez-Alonso, M., Velasco-Negueruela, A., and Lopez-Saez, A. 1991. The Essential Oil of <i>Cleonia lusitanica</i> . J. Ess. Oil Res., 3: 441-442. |
|---------|------|-----|-----|-------|---|

Activities (35)

| | |
|-------------------------------------|--|
| (-)-Chronotropic 29 ug/ml | Hansel, R., Keller, K., Rimpler, H., and Schneider, G. eds. 1992. Hager's Handbuch der Pharmazeutischen Praxis, Drogen (A-D), 1209 pp., 1993 (E-O), 970 pp., 1994 (P-Z), 1196 pp. Springer-Verlag, Berlin. |
| (-)-Inotropic 29 ug/ml | Hansel, R., Keller, K., Rimpler, H., and Schneider, G. eds. 1992. Hager's Handbuch der Pharmazeutischen Praxis, Drogen (A-D), 1209 pp., 1993 (E-O), 970 pp., 1994 (P-Z), 1196 pp. Springer-Verlag, Berlin. |
| Allelochemic | |
| Analgesic | |
| Antiacetylcholine | Newall, C. A., Anderson, L. A. and Phillipson, J. D. 1996. Herbal Medicine - A Guide for Health-care Professionals. The Pharmaceutical Press, London. 296pp. |
| Antibacterial MIC=125-250 ug/ml | |
| Antibronchitic | Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp. |
| Antiescherichic MIC=125 ug/ml | |
| Antifeedant | |
| Antiinflammatory | |
| Antiotitic | |
| Antipyretic | |
| Antisalmonella MIC=125 ug/ml | |
| Antispasmodic ED50=0.008 mg/ml | |
| Antistaphylococcic MIC=250 ug/ml | |
| Antiyeast MIC=250 ug/ml | |
| CNS-Stimulant | List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979. |
| CNS-Toxic | Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp. |
| Candidicide MIC=250 ug/ml | |
| Choleretic | |
| FLavor FEMA<1 | Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry |
| Fungicide | |

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|------------------------|---|
| Herbicide IC50=470 mM | Lydon, J. & Duke, S., The potential of pesticides from plants, pp. 1-41 in Craker, L. & Simon, J., eds, Herbs, Spices & Medicinal Plants: Recent Advances in Botany, Horticulture, & Pharmacology, v. 4, Oryx Press, Phoenix, 1989, 267 pp. |
| Herbicide IC50=470 uM | Keeler, R.F. and Tu, A.T. eds. 1991. Toxicology of Plant and Fungal Compounds. (Handbook of Natural Toxins Vol. 6) Marcel Dekker, Inc. NY. 665 pp. |
| Inhalant | Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp. |
| Insect-Repellent | |
| Insectifuge | Jacobson, M., Glossary of Plant-Derived Insect Deterrents, CRC Press, Inc., Boca Raton, FL, 213 p, 1990. |
| Irritant | Rinzler, C. A. 1990. The Complete Book of Herbs, Spices and Condiments. Facts on File, New York. 199 pp. |
| Myorelaxant | Newall, C. A., Anderson, L. A. and Phillipson, J. D. 1996. Herbal Medicine - A Guide for Health-care Professionals. The Pharmaceutical Press, London. 296pp. |
| Nematicide MLC=1 mg/ml | Shoyakugaku Zasshi, 44: 183. |
| Perfumery | Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp. |
| Pesticide | |
| Sedative | Medline (post 1990 searches filed in my computer) |
| Tranquilizer | |

BORNYL-ACETATE Leaf -- 1.0 -0.41 Perez-Alonso, M., Velasco-Negueruela, A., and Lopez-Saez, A. 1991. The Essential Oil of *Cleonia lusitanica*. J. Ess. Oil Res., 3: 441-442.

Activities (12)

| | |
|-------------------------------|---|
| (-)-Chronotropic 933 nl/ml | Hansel, R., Keller, K., Rimpler, H., and Schneider, G. eds. 1992. Hager's Handbuch der Pharmazeutischen Praxis, Drogen (A-D), 1209 pp., 1993 (E-O), 970 pp., 1994 (P-Z), 1196 pp. Springer-Verlag, Berlin. |
| (-)-Inotropic 933 nl/ml | Hansel, R., Keller, K., Rimpler, H., and Schneider, G. eds. 1992. Hager's Handbuch der Pharmazeutischen Praxis, Drogen (A-D), 1209 pp., 1993 (E-O), 970 pp., 1994 (P-Z), 1196 pp. Springer-Verlag, Berlin. |
| Antibacterial | Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp. |
| Antifeedant | Jacobson, M., Glossary of Plant-Derived Insect Deterrents, CRC Press, Inc., Boca Raton, FL, 213 p, 1990. |
| Antispasmodic ED50=0.09 mg/ml | Fitoterapia No.59-1984. |
| Antiviral | Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp. |
| Expectorant | Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp. |
| FLavor FEMA 70-80 | Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry |
| Insectifuge | Blaschek, W., Hansel, R., Keller, K., Reichling, J., Rimpler, H., and Schneider, G. eds. 1998. Hager's Handbuch der Pharmazeutischen Praxis, Auflage Band 2 (A-K), 909 pp., (L-Z), 858 pp. Springer-Verlag, Berlin. |
| Myorelaxant | Newall, C. A., Anderson, L. A. and Phillipson, J. D. 1996. Herbal Medicine - A Guide for Health-care Professionals. The Pharmaceutical Press, London. 296pp. |
| Pesticide | |
| Sedative | |

CAMPHENE Leaf 1.0 5.0 -0.19 Perez-Alonso, M., Velasco-Negueruela, A., and Lopez-Saez, A. 1991. The Essential Oil of *Cleonia lusitanica*. J. Ess. Oil Res., 3: 441-442.

Activities (9)

| | |
|----------------------|---|
| Allelopathic | Wright,C.W.(Ed)2002.Medicinal&Aromatic Plants-Industrial Profiles.Artemisia.344pp.Maffei,M.(Ed)2002.Vetiveria.The Genus Vetiveria.Taylor&Francis.NY,NY.191pp.Southwell,I.,Lowe,R.(Eds)1999.Tea Tree.The Genus Melaleuca.Harwood Acad.Pub.Amsterdam,Netherlands. |
| Antilithic? | Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp. |
| Antioxidant | Jim Duke's personal files. |
| Expectorant | Hansel, R., Keller, K., Rimpler, H., and Schneider, G. eds. 1992. Hager's Handbuch der Pharmazeutischen Praxis, Drogen (A-D), 1209 pp., 1993 (E-O), 970 pp., 1994 (P-Z), 1196 pp. Springer-Verlag, Berlin. |
| FLavor FEMA 15-175 | Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry |
| Hypocholesterolemic? | Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp. |
| Insectifuge | Jacobson, M., Glossary of Plant-Derived Insect Deterrents, CRC Press, Inc., Boca Raton, FL, 213 p, 1990. |
| Pesticide | |
| Spasmodic | Fitoterapia No.59-1984. |

CAMPHOR Leaf 5.0 7.0 -0.25 Perez-Alonso, M., Velasco-Negueruela, A., and Lopez-Saez, A. 1991. The Essential Oil of *Cleonia lusitanica*. J. Ess. Oil Res., 3: 441-442.

Activities (41)

| | |
|---------------------------------|--|
| Allelopathic | |
| Analgesic | |
| Anesthetic | |
| Antiacne | Nigg, H.N. and Seigler, D.S., eds. 1992. Phytochemical Resources for Medicine and Agriculture. Plenum Press, New York. 445 pp. |
| Antidiarrheic 500 ug/ml | Wealth of India. |
| Antidysenteric 500 ug/ml | Wealth of India. |
| Antiemetic 100-200 mg man orl | Huang, K. C. 1993. The Pharmacology of Chinese Herbs. CRC Press, Boca Raton, FL 388 pp. |
| Antifeedant IC50=5,000 ppm diet | Lydon, J. & Duke, S., The potential of pesticides from plants, pp. 1-41 in Craker, L. & Simon, J., eds, Herbs, Spices & Medicinal Plants: Recent Advances in Botany, Horticulture, & Pharmacology, v. 4, Oryx Press, Phoenix, 1989, 267pp. |

| | |
|------------------------------------|---|
| Antineuralgic | Martindale's 28th |
| Antipruritic | Merck 11th Edition |
| Antiseptic | Merck 11th Edition |
| Antispasmodic ED50=0.075 mg/ml | Fitoterapia No.59-1984. |
| CNS-Stimulant | |
| Cancer-Preventive | Stitt, P. A. Why George Should Eat Broccoli. Dougherty Co, Milwaukee, WI, 1990, 399 pp. |
| Carminative | Yamamoto, A., Umemori, S., and Muranishi, S. 1993. Absorption Enhancement of Intrapulmonary Administered Insulin by Various Absorption Enhancers and Protease Inhibitors in Rats. J. Pharm. Pharmacol. 46: 14-18, 1994. |
| Convulsant | R.J. Hixtable (Huxtable, R.J. (as T. Max). 1992. This and That: The Essential Pharmacology of Herbs and Spices. Tips 13:15-20 Huxtable, R.J. 1992b. The Myth of Benificent Nature. The Risk of Herbal Preparations. Anns. Intern. Med. 117(2):165-6; Huxtable, R. |
| Cosmetic | Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp. |
| Counterirritant | Martindale's 28th |
| Decongestant | Nigg, H.N. and Seigler, D.S., eds. 1992. Phytochemical Resources for Medicine and Agriculture. Plenum Press, New York. 445 pp. |
| Deliriant | Merck 11th Edition |
| Ecboic | |
| Emetic | |
| Epileptogenic | Newall, C. A., Anderson, L. A. and Phillipson, J. D. 1996. Herbal Medicine - A Guide for Health-care Professionals. The Pharmaceutical Press, London. 296pp. |
| Expectorant | Martindale's 29th |
| Fungicide ED50=2.7 mM | Keeler, R.F. and Tu, A.T. eds. 1991. Toxicology of Plant and Fungal Compounds. (Handbook of Natural Toxins Vol. 6) Marcel Dekker, Inc. NY. 665 pp. |
| Herbicide IC50=3.3-180 mM | Lydon, J. & Duke, S., The potential of pesticides from plants, pp. 1-41 in Craker, L. & Simon, J., eds, Herbs, Spices & Medicinal Plants: Recent Advances in Botany, Horticulture, & Pharmacology, v. 4, Oryx Press, Phoenix, 1989, 267pp. |
| Insect-Repellent | |
| Insectifuge | |
| Irritant | Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp. |
| Nematicide MLC=1 mg/ml | Shoyakugaku Zasshi, 44: 183. |
| Occuloirritant | |
| P450-2B1-Inhibitor IC50=7.89 uM | |
| Pesticide | |
| Respirainhibitor | Merck 11th Edition |
| Respirastimulant | Huang, K. C. 1993. The Pharmacology of Chinese Herbs. CRC Press, Boca Raton, FL 388 pp. |
| Rubefacient | |
| Stimulant | R.J. Hixtable (Huxtable, R.J. (as T. Max). 1992. This and That: The Essential Pharmacology of Herbs and Spices. Tips 13:15-20 Huxtable, R.J. 1992b. The Myth of Benificent Nature. The Risk of Herbal Preparations. Anns. Intern. Med. 117(2):165-6; Huxtable, R. |
| Transdermal | |
| Verrucolytic | Nigg, H.N. and Seigler, D.S., eds. 1992. Phytochemical Resources for Medicine and Agriculture. Plenum Press, New York. 445 pp. |
| Vibriocide 500 ug/ml | Wealth of India. |

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|-----------------------|------|-----|-----|-----|--|
| CARYOPHYLLENE-EPOXIDE | Leaf | 4.0 | 6.0 | 1.0 | Perez-Alonso, M., Velasco-Neguera, A., and Lopez-Saez, A. 1991. The Essential Oil of <i>Cleonia lusitanica</i> . J. Ess. Oil Res., 3: 441-442. |
|-----------------------|------|-----|-----|-----|--|

Activities (6)

| | |
|-------------------------|--|
| Antifeedant 1 mM (diet) | Keeler, R.F. and Tu, A.T. eds. 1991. Toxicology of Plant and Fungal Compounds. (Handbook of Natural Toxins Vol. 6) Marcel Dekker, Inc. NY. 665 pp. |
| Attifuge | CIBA (Chadwick, D.J. and Marsh, J. 1990. Bioactive Compounds from Plants. CIBA Foundation Symposium 154. John Wiley & Sons, Ltd. Chichester UK. 242 pp. |
| Fungistat | CIBA (Chadwick, D.J. and Marsh, J. 1990. Bioactive Compounds from Plants. CIBA Foundation Symposium 154. John Wiley & Sons, Ltd. Chichester UK. 242 pp. |
| Insectifuge | CIBA (Chadwick, D.J. and Marsh, J. 1990. Bioactive Compounds from Plants. CIBA Foundation Symposium 154. John Wiley & Sons, Ltd. Chichester UK. 242 pp. |
| Larvicide IC60=5 mM | Lydon, J. & Duke, S., The potential of pesticides from plants, pp. 1-41 in Craker, L. & Simon, J., eds, Herbs, Spices & Medicinal Plants: Recent Advances in Botany, Horticulture, & Pharmacology, v. 4, Oryx Press, Phoenix, 1989, 267pp. |
| Pesticide | |

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|--------------|------|-----|------|-------|--|
| CIS-VERBENOL | Leaf | 3.0 | 10.0 | -0.57 | Perez-Alonso, M., Velasco-Neguera, A., and Lopez-Saez, A. 1991. The Essential Oil of <i>Cleonia lusitanica</i> . J. Ess. Oil Res., 3: 441-442. |
|--------------|------|-----|------|-------|--|

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|----------------|------|-----|-----|-------|--|
| DIHYDROCARVEOL | Leaf | 1.0 | 8.0 | -1.39 | Perez-Alonso, M., Velasco-Neguera, A., and Lopez-Saez, A. 1991. The Essential Oil of <i>Cleonia lusitanica</i> . J. Ess. Oil Res., 3: 441-442. |
|----------------|------|-----|-----|-------|--|

Activities (2)

| | |
|-------------------|--|
| FLavor FEMA 5-500 | Aloe Research Council - Duke writeup of non-peer reviewed book by Coats and draft by Henry |
| Irritant | Zebovitz, T. C. Ed. 1989. Part VII. Flavor and Fragrance Substances, in Keith L. H. and Walters, D.B., eds. Compendium of Safety Data Sheets for Research and Industrial Chemicals. VCH Publishers, New York. 3560-4253. |

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|----|------|----|-------|-------|--|
| EO | Leaf | -- | 500.0 | -0.97 | Perez-Alonso, M., Velasco-Neguera, A., and Lopez-Saez, A. 1991. The Essential Oil of <i>Cleonia lusitanica</i> . J. Ess. Oil Res., 3: 441-442. |
|----|------|----|-------|-------|--|

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|-------------------------|------|-----|-----|--|--|
| FARNESOL-ACETATE-ISOMER | Leaf | 1.0 | 1.0 | | Perez-Alonso, M., Velasco-Neguera, A., and Lopez-Saez, A. 1991. The Essential Oil of <i>Cleonia lusitanica</i> . J. Ess. Oil Res., 3: 441-442. |
|-------------------------|------|-----|-----|--|--|

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|-----------------|------|-----|-----|--|--|
| FARNESOL-ISOMER | Leaf | 1.0 | 1.0 | | Perez-Alonso, M., Velasco-Neguera, A., and Lopez-Saez, A. 1991. The Essential Oil of <i>Cleonia lusitanica</i> . J. Ess. Oil Res., 3: 441-442. |
|-----------------|------|-----|-----|--|--|

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|----------|------|-----|-----|------|---|
| FENCHONE | Leaf | 1.0 | 1.0 | -0.6 | Perez-Alonso, M., Velasco-Negueruela, A., and Lopez-Saez, A. 1991. The Essential Oil of <i>Cleonia lusitanica</i> . J. Ess. Oil Res., 3: 441-442. |
|----------|------|-----|-----|------|---|

Activities (6)

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|--------------------|--|--|--|--|--|
| Antialzheimeran? | L. Gracza (1985) as cited by Buchbauer re antiacetylcholinesterase. | | | | |
| Anticholinesterase | L. Gracza (1985) as cited by Buchbauer re antiacetylcholinesterase. | | | | |
| Counterirritant | Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp. | | | | |
| FLavor FEMA 0.1-5 | Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry | | | | |
| Perfumery | Merck 11th Edition | | | | |
| Secretolytic | Bisset, N.G., ed. 1994. Herbal Drugs and Phytopharmaceuticals. CRC Press. Boca Raton, FL. 566 pp. | | | | |

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|-----------------|------|-----|-----|-----|---|
| FENCHYL-ALCOHOL | Leaf | 4.0 | 6.0 | 1.0 | Perez-Alonso, M., Velasco-Negueruela, A., and Lopez-Saez, A. 1991. The Essential Oil of <i>Cleonia lusitanica</i> . J. Ess. Oil Res., 3: 441-442. |
|-----------------|------|-----|-----|-----|---|

Activities (1)

| | | | | | |
|-------------------|---|--|--|--|--|
| FLavor FEMA 0.2-5 | Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry | | | | |
|-------------------|---|--|--|--|--|

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|-----------------|------|-----|-----|-------|---|
| GAMMA-TERPINENE | Leaf | 1.0 | 3.0 | -0.37 | Perez-Alonso, M., Velasco-Negueruela, A., and Lopez-Saez, A. 1991. The Essential Oil of <i>Cleonia lusitanica</i> . J. Ess. Oil Res., 3: 441-442. |
|-----------------|------|-----|-----|-------|---|

Activities (11)

| | | | | | |
|---|--|--|--|--|--|
| ACE-Inhibitor 100 ug/ml (weak activity) | | | | | |
| Acaricide | | | | | |
| Aldose-Reductase-Inhibitor 100 ug/ml | Okamura, K., Iwakami, S., Matsunaga, T. 1992. Biological Activity of Monoterpenes from Trees. Toyama-Ken Yakuji Kenkyusho Nenpo, (20): 95-101. | | | | |
| Antiacetylcholinesterase IC23=1.2 mM | | | | | |
| Antifeedant | Blaschek, W., Hansel, R., Keller, K., Reichling, J., Rimpler, H., and Schneider, G. eds. 1998. Hager's Handbuch der Pharmazeutischen Praxis, Auflage Band 2 (A-K), 909 pp., (L-Z), 858 pp. Springer-Verlag, Berlin. | | | | |
| Antioxidant | Jim Duke's personal files. | | | | |
| FLavor FEMA 1-40 | Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry | | | | |
| Insectifuge | Blaschek, W., Hansel, R., Keller, K., Reichling, J., Rimpler, H., and Schneider, G. eds. 1998. Hager's Handbuch der Pharmazeutischen Praxis, Auflage Band 2 (A-K), 909 pp., (L-Z), 858 pp. Springer-Verlag, Berlin. | | | | |
| Irritant | Zebovitz, T. C. Ed. 1989. Part VII. Flavor and Fragrance Substances, in Keith L. H. and Walters, D.B., eds. Compendium of Safety Data Sheets for Research and Industrial Chemicals. VCH Publishers, New York. 3560-4253. | | | | |
| Perfumery | Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry | | | | |
| Pesticide | | | | | |

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|--------------|------|-----|-----|-------|---|
| GERMACRENE-D | Leaf | 1.0 | 2.0 | -0.52 | Perez-Alonso, M., Velasco-Negueruela, A., and Lopez-Saez, A. 1991. The Essential Oil of <i>Cleonia lusitanica</i> . J. Ess. Oil Res., 3: 441-442. |
|--------------|------|-----|-----|-------|---|

Activities (2)

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|-----------|
| Pesticide |
| Pheromone |

| | | | | | |
|------------------|------|----|-----|--|---|
| HUMULENE-EPOXIDE | Leaf | -- | 1.0 | | Perez-Alonso, M., Velasco-Negueruela, A., and Lopez-Saez, A. 1991. The Essential Oil of <i>Cleonia lusitanica</i> . J. Ess. Oil Res., 3: 441-442. |
|------------------|------|----|-----|--|---|

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|--------------------|------|-----|-----|--|---|
| ISO-DIHYDROCARVEOL | Leaf | 2.0 | 3.0 | | Perez-Alonso, M., Velasco-Negueruela, A., and Lopez-Saez, A. 1991. The Essential Oil of <i>Cleonia lusitanica</i> . J. Ess. Oil Res., 3: 441-442. |
|--------------------|------|-----|-----|--|---|

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|------------|------|-----|-----|-------|---|
| ISOBORNEOL | Leaf | 1.0 | 5.0 | -0.69 | Perez-Alonso, M., Velasco-Negueruela, A., and Lopez-Saez, A. 1991. The Essential Oil of <i>Cleonia lusitanica</i> . J. Ess. Oil Res., 3: 441-442. |
|------------|------|-----|-----|-------|---|

Activities (7)

| | | | | | |
|------------------------|---|--|--|--|--|
| Antiherpetic 600 ppm | | | | | |
| Antiviral 600 ppm | | | | | |
| Insectifuge | | | | | |
| Motor-Stimulant | Buchbauer et al, e.g.Buchbauer et al,1993.Therapeutic properties of essential oils and fragrances. Chap.12 in Teranishi,R, Buttery,R.G and Sugisawa,H. Eds. Bioactive Volatile Compounds from Plants. ACS Symposium Series 525. Amer. Chem. Soc., Washington DC | | | | |
| Nematicide MLC=1 mg/ml | Shoyakugaku Zasshi, 44: 183. | | | | |
| Pesticide | | | | | |
| Sedative | | | | | |

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|----------|------|-------|-------|-------|---|
| LIMONENE | Leaf | 165.0 | 325.0 | -0.11 | Perez-Alonso, M., Velasco-Negueruela, A., and Lopez-Saez, A. 1991. The Essential Oil of <i>Cleonia lusitanica</i> . J. Ess. Oil Res., 3: 441-442. |
|----------|------|-------|-------|-------|---|

Activities (60)

| | | | | | |
|----------------|--|--|--|--|--|
| AChE-Inhibitor | Grundy, D. L. and Still, C. C., Inhibition of acetylcholinesterases by pulegone-1,2-epoxide, Oest. Biochem. & Physiol., 23, 1985, 383-8. | | | | |
|----------------|--|--|--|--|--|

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|---|--|--|--|--|--|
| Allelochemic | | | | | |
| Allergenic 1/20th carene | | | | | |
| Antiacetylcholinesterase IC22-26=1.2 mM | | | | | |
| Antiadenomic | | | | | |
| Antialzheimeran? | | | | | Grundy, D. L. and Still, C. C., Inhibition of acetylcholinesterases by pulegone-1,2-epoxide, Oest. Biochem. & Physiol., 23, 1985, 383-8. |
| Antiasthmatic | | | | | |
| Antibacterial | | | | | Revista Iltiana Eppos, 12: 5, 1994. |
| Anticancer | | | | | |
| Antiesophagitic | | | | | |
| Antifeedant | | | | | |
| Antiflu | | | | | Economic & Medicinal Plant Research, 5: 195. |
| Antiinflammatory | | | | | |
| Antilithic | | | | | |
| Antilymphomic | | | | | |
| Antimetastatic (Stomach) | | | | | |
| Antimutagenic | | | | | Economic & Medicinal Plant Research, 6: 235. |
| Antiobesity | | | | | |
| Antiseptic | | | | | |
| Antispasmodic ED50=0.197 mg/ml | | | | | Fitoterapia No.59-1984. |
| Antitumor | | | | | |
| Antitumor (Breast) | | | | | |
| Antitumor (Colon) | | | | | |
| Antitumor (Pancreas) | | | | | |
| Antitumor (Prostate) | | | | | |
| Antitumor (Stomach) | | | | | |
| Antiviral | | | | | |
| Apoptotic | | | | | |
| Bronchoprotectant | | | | | |
| Cancer-Preventive | | | | | Stitt, P. A. Why George Should Eat Broccoli. Dougherty Co, Milwaukee, WI, 1990, 399 pp. |
| Candidistat | | | | | |
| Chemopreventive | | | | | |
| Cholesterolytic | | | | | |
| Detoxicant | | | | | |
| Enterocontractant | | | | | J. Aromatherapy 4: 22. |
| Expectorant | | | | | |
| FLavor | | | | | |
| Fungiphilic | | | | | J. Agric. Food Chem. 43: 2283. |
| Fungistat | | | | | |
| GST-Inducer | | | | | |
| Herbicide IC50=45 uM | | | | | Keeler, R.F. and Tu, A.T. eds. 1991. Toxicology of Plant and Fungal Compounds. (Handbook of Natural Toxins Vol. 6) Marcel Dekker, Inc. NY. 665 pp. |
| Histaminic | | | | | |
| Immunomodulator | | | | | |
| Insecticide 0.37 uM/fly | | | | | |
| Insectifuge | | | | | Jacobson, M., Glossary of Plant-Derived Insect Deterrents, CRC Press, Inc., Boca Raton, FL, 213 p, 1990. |
| Interleukin-6-Inhibitor | | | | | |
| Irritant | | | | | |
| Lipolytic | | | | | |
| Myorelaxant 50 mg/kg | | | | | |
| NO-Genic | | | | | |
| Nematicide IC=100 ug/ml | | | | | Nigg, H.N. and Seigler, D.S., eds. 1992. Phytochemical Resources for Medicine and Agriculture. Plenum Press, New York. 445 pp. |
| Ornithine-Decarboxylase-Inhibitor ~750 mg/kg (diet) | | | | | |
| Ozone-Scavenger | | | | | |
| P450-Inducer | | | | | |
| Peristaltic | | | | | |
| Pesticide | | | | | |
| Photosensitizer | | | | | Rinzler, C. A. 1990. The Complete Book of Herbs, Spices and Condiments. Facts on File, New York. 199 pp. |
| Sedative ED=1-32 mg/kg | | | | | Wagner & Wolff, eds. 1977. New Natural Products (RS164. 156. 176) |
| Transdermal | | | | | |

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|---------|------|-----|-----|-------|--|
| LINALOL | Leaf | 1.0 | 2.0 | -0.44 | Perez-Alonso, M., Velasco-Neguereuela, A., and Lopez-Saez, A. 1991. The Essential Oil of Cleonia lusitánica. J. Ess. Oil Res., 3: 441-442. |
| MYRCENE | Leaf | -- | 8.0 | -0.17 | Perez-Alonso, M., Velasco-Neguereuela, A., and Lopez-Saez, A. 1991. The Essential Oil of Cleonia lusitánica. J. Ess. Oil Res., 3: 441-442. |

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|--------------------------------------|--|--|--|--|--|
| ACE-Inhibitor 100 ug/ml | | | | | |
| Aldose-Reductase-Inhibitor 100 ug/ml | Okamura, K., Iwakami, S., Matsunaga, T. 1992. Biological Activity of Monoterpenes from Trees. Toyama-Ken Yakuji Kenkyusho Nenpo, (20): 95-101. | | | | |
| Allergenic | | | | | |
| Analgesic | Kauderer, B., Zamith, H., Paumgarten, F.J.R., and Speit, G. Evaluation of the Mutagenicity of B-Myrcene in Mammalian Cells In Vitro. Environmental and Molecular Mutagenesis 18: 28-34, 1991. | | | | |
| Antibacterial | | | | | |
| Anticonvulsant | | | | | |
| Antimutagenic | Kauderer, B., Zamith, H., Paumgarten, F.J.R., and Speit, G. Evaluation of the Mutagenicity of B-Myrcene in Mammalian Cells In Vitro. Environmental and Molecular Mutagenesis 18: 28-34, 1991. | | | | |
| Antinitrosaminic | | | | | |
| Antinociceptive 10-20 mg/kg ipr mus | Rao, V.S.N., Menezes, A.M.S., Viana, G.S.B. 1990. Effect of myrcene on nociception in mice. J. Pharm. Pharmacol. 42: 877-878, 1990. | | | | |
| Antinociceptive 20-40 mg/kg scu mus | Rao, V.S.N., Menezes, A.M.S., Viana, G.S.B. 1990. Effect of myrcene on nociception in mice. J. Pharm. Pharmacol. 42: 877-878, 1990. | | | | |
| Antioxidant | Jim Duke's personal files. | | | | |
| Antispasmodic | Jim Duke's personal files. | | | | |
| Chemopreventive | Stitt, P. A. Why George Should Eat Broccoli. Dougherty Co, Milwaukee, WI, 1990, 399 pp. | | | | |
| Flavor FEMA 0.5-9 | Aloe Research Council - Duke writeup of non-peer reviewed book by Coats and draft by Henry | | | | |
| Fungicide | Keeler, R.F. and Tu, A.T. eds. 1991. Toxicology of Plant and Fungal Compounds. (Handbook of Natural Toxins Vol. 6) Marcel Dekker, Inc. NY. 665 pp. | | | | |
| Hypothermic | | | | | |
| Insectifuge | | | | | |
| Irritant | Zebovitz, T. C. Ed. 1989. Part VII. Flavor and Fragrance Substances, in Keith L. H. and Walters, D.B., eds. Compendium of Safety Data Sheets for Research and Industrial Chemicals. VCH Publishers, New York. 3560-4253. | | | | |
| Myorelaxant 100-200 mg/kg | | | | | |
| P450-2B1-Inhibitor IC50=0.14 uM | | | | | |
| Perfumery | Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp. | | | | |
| Pesticide | | | | | |

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|----------------------|------|-----|-----|------|---|
| NEODIHYDROCARVEOL | Leaf | 2.0 | 7.0 | -1.0 | Perez-Alonso, M., Velasco-Negueruela, A., and Lopez-Saez, A. 1991. The Essential Oil of Cleonia lusitanica. J. Ess. Oil Res., 3: 441-442. |
| NEOISODIHYDROCARVEOL | Leaf | 1.0 | 5.0 | | Perez-Alonso, M., Velasco-Negueruela, A., and Lopez-Saez, A. 1991. The Essential Oil of Cleonia lusitanica. J. Ess. Oil Res., 3: 441-442. |
| P-CYMENE | Leaf | 2.0 | 3.0 | -0.4 | Perez-Alonso, M., Velasco-Negueruela, A., and Lopez-Saez, A. 1991. The Essential Oil of Cleonia lusitanica. J. Ess. Oil Res., 3: 441-442. |

| Activities (16) | | | | | |
|--------------------------------------|--|--|--|--|--|
| Analgesic | Martindale's 28th | | | | |
| Antiacetylcholinesterase IC40=1.2 mM | | | | | |
| Antibacillary | | | | | |
| Antibacterial | | | | | |
| Antiflu | | | | | |
| Antirheumalgic | Martindale's 28th | | | | |
| Antiviral | | | | | |
| Flavor FEMA 12-250 | Aloe Research Council - Duke writeup of non-peer reviewed book by Coats and draft by Henry | | | | |
| Fungicide | Keeler, R.F. and Tu, A.T. eds. 1991. Toxicology of Plant and Fungal Compounds. (Handbook of Natural Toxins Vol. 6) Marcel Dekker, Inc. NY. 665 pp. | | | | |
| Herbicide IC50=50 uM | Keeler, R.F. and Tu, A.T. eds. 1991. Toxicology of Plant and Fungal Compounds. (Handbook of Natural Toxins Vol. 6) Marcel Dekker, Inc. NY. 665 pp. | | | | |
| Insectifuge | Blaschek, W., Hansel, R., Keller, K., Reichling, J., Rimpler, H., and Schneider, G. eds. 1998. Hager's Handbuch der Pharmazeutischen Praxis, Auflage Band 2 (A-K), 909 pp., (L-Z), 858 pp. Springer-Verlag, Berlin. | | | | |
| Irritant | Zebovitz, T. C. Ed. 1989. Part VII. Flavor and Fragrance Substances, in Keith L. H. and Walters, D.B., eds. Compendium of Safety Data Sheets for Research and Industrial Chemicals. VCH Publishers, New York. 3560-4253. | | | | |
| Laxative | Zebovitz, T. C. Ed. 1989. Part VII. Flavor and Fragrance Substances, in Keith L. H. and Walters, D.B., eds. Compendium of Safety Data Sheets for Research and Industrial Chemicals. VCH Publishers, New York. 3560-4253. | | | | |
| Pesticide | | | | | |
| Sedative | Zebovitz, T. C. Ed. 1989. Part VII. Flavor and Fragrance Substances, in Keith L. H. and Walters, D.B., eds. Compendium of Safety Data Sheets for Research and Industrial Chemicals. VCH Publishers, New York. 3560-4253. | | | | |
| Trichomonicide LD100=50 ug/ml | | | | | |

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|----------|------|------|------|-------|---|
| SABINENE | Leaf | 10.0 | 12.0 | -0.25 | Perez-Alonso, M., Velasco-Negueruela, A., and Lopez-Saez, A. 1991. The Essential Oil of Cleonia lusitanica. J. Ess. Oil Res., 3: 441-442. |
|----------|------|------|------|-------|---|

| Activities (5) | | | | | |
|------------------|--|--|--|--|--|
| Antibacterial | | | | | |
| Antihelicobacter | | | | | |
| Antiseptic | | | | | |
| Antiulcer | | | | | |
| Perfumery | Aloe Research Council - Duke writeup of non-peer reviewed book by Coats and draft by Henry | | | | |

Activities (23)

| | | | | |
|---|---|--|--|--|
| Allelopathic | Wright, C.W. (Ed) 2002. Medicinal & Aromatic Plants - Industrial Profiles. Artemisia. 344pp. Maffei, M. (Ed) 2002. Vetiveria. The Genus Vetiveria. Taylor & Francis. NY, NY. 191pp. Southwell, I., Lowe, R. (Eds) 1999. Tea Tree. The Genus Melaleuca. Harwood Acad. Pub. Amsterdam, Netherlands. | | | |
| Antiacetylcholinesterase IC ₂₁₋₂₄ =1.2 mM | | | | |
| Antiacne | | | | |
| Antiallergic | | | | |
| Antiasthmatic | Chin. J. Tuber. Respir. Dis., 4:203, 1982. | | | |
| Antibacterial | | | | |
| Antioxidant | | | | |
| Antiseptic | Flav. & Frag. J. 9: 129. | | | |
| Antispasmodic | | | | |
| Antitussive | Chin. J. Tuber. Respir. Dis. | | | |
| Antiulcer | | | | |
| Bacteriostatic | Chin. J. Tuber. Respir. Dis. | | | |
| Diuretic 0.1 ml/rat | | | | |
| Fungicide | | | | |
| Herbicide IC ₅₀ =200 mM | Lydon, J. & Duke, S., The potential of pesticides from plants, pp. 1-41 in Craker, L. & Simon, J., eds, Herbs, Spices & Medicinal Plants: Recent Advances in Botany, Horticulture, & Pharmacology, v. 4, Oryx Press, Phoenix, 1989, 267pp. | | | |
| Herbicide IC ₅₀ =22 μM | Keeler, R.F. and Tu, A.T. eds. 1991. Toxicology of Plant and Fungal Compounds. (Handbook of Natural Toxins Vol. 6) Marcel Dekker, Inc. NY. 665 pp. | | | |
| Insectifuge | | | | |
| Irritant | Newall, C. A., Anderson, L. A. and Phillipson, J. D. 1996. Herbal Medicine - A Guide for Health-care Professionals. The Pharmaceutical Press, London. 296pp. | | | |
| Nematicide MLC=1 mg/ml | Shoyakugaku Zasshi, 44: 183. | | | |
| Pesticide | | | | |
| Renoirritant | Newall, C. A., Anderson, L. A. and Phillipson, J. D. 1996. Herbal Medicine - A Guide for Health-care Professionals. The Pharmaceutical Press, London. 296pp. | | | |
| Spermicide ED ₁₀₀ =0.015 | | | | |
| Vulnerary | Lawrence Review of Natural Products, Jan-91. | | | |

| | | | | | |
|-------------|------|-----|-----|-------|---|
| TERPINOLENE | Leaf | 1.0 | 1.0 | -0.23 | Perez-Alonso, M., Velasco-Negueruela, A., and Lopez-Saez, A. 1991. The Essential Oil of Cleonia lusitanica. J. Ess. Oil Res., 3: 441-442. |
|-------------|------|-----|-----|-------|---|

Activities (9)

| | | | | |
|-------------------|--|--|--|--|
| Allelochemic | | | | |
| Antifeedant | | | | |
| Antinitrosaminic | | | | |
| Antioxidant | | | | |
| Deodorant | Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp. | | | |
| FLAVOR FEMA 15-60 | Aloe Research Council - Duke writeup of non-peer reviewed book by Coats and draft by Henry | | | |
| Fungicide | Keeler, R.F. and Tu, A.T. eds. 1991. Toxicology of Plant and Fungal Compounds. (Handbook of Natural Toxins Vol. 6) Marcel Dekker, Inc. NY. 665 pp. | | | |
| Perfumery | Aloe Research Council - Duke writeup of non-peer reviewed book by Coats and draft by Henry | | | |
| Pesticide | | | | |

| | | | | | |
|-----------|------|----|-----|-------|---|
| VERBENONE | Leaf | -- | 2.0 | -0.36 | Perez-Alonso, M., Velasco-Negueruela, A., and Lopez-Saez, A. 1991. The Essential Oil of Cleonia lusitanica. J. Ess. Oil Res., 3: 441-442. |
|-----------|------|----|-----|-------|---|

Activities (5)

| | | | | |
|----------------|--|--|--|--|
| Allelochemic | | | | |
| Coleopterifuge | | | | |
| Insectifuge | | | | |
| Perfumery | Aloe Research Council - Duke writeup of non-peer reviewed book by Coats and draft by Henry | | | |
| Pesticide | | | | |